



Warrell Creek to Nambucca Heads – Pacific Highway Upgrade Project

ENVIRONMENT PROTECTION AUTHORITY MONTHLY REPORT

■ January 2015

Pacifico Project Number: WC2NH



A team consisting of RMS and Pacifico (ACCIONA Ferrovial JV) to upgrade the Pacific Highway at Warrell Creek to Nambucca Heads

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1. Introduction

Environmental Protection Licence (EPL) 20533 was issued to ACCIONA Infrastructure for the Warrell Creek to Nambucca Heads Pacific Highway Upgrade project on the 16th December 2014. Condition R1.8 of the EPL requires the licensee to provide the EPA with a monthly report containing the following information:

- a) details of all non-compliances with the conditions of this licence and measures taken, or proposed, to prevent a recurrence of such a non-compliance; and
- b) details of all discharges from the sediment basins where the water quality results exceed the limits prescribed by Condition L2.4 including the results of rainfall measurements to demonstrate compliance with Condition M4.1; and

The report referred to in this condition must be received by the EPA within 10 working days of the end of each month.

This document has been prepared to fulfil the requirements of Condition R1.8.

1.1 Description of Works

The project's construction activities during January 2015 were limited to the following:

- Demolition of existing structures;
- Minor clearing for installation of fencing;
- Minor clearing for access tracks;
- Site compound establishment;
- Geotechnical Investigations; and
- Site Survey

The works scheduled for next month include:

- Clearing and Grubbing;
- Installation of erosion and sediment controls;
- Installation of permanent boundary fencing;
- Commencement of earthworks;
- Commencement of culvert installation;
- Site compound establishment (Northern Compound);
- Geotechnical Investigations;
- Demolition of existing structures;
- Installation of temporary waterway crossings; and
- Site Survey.

1.2 Consultation Activities

The project's consultation activities during January 2015 included various community letterbox drop notifications and the following:

Groups	Date	Key Topics
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Environmental Review Group	21/01/15	Construction Progress, Design Update, Upcoming works, EWMS discussion, Environmental Update, Monitoring update.
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At House Noise Treatments

The At House noise treatment program is currently being managed by RMS and is not part of the ACCIONA (Pacífico) Scope of Works and Technical Criteria.

Upcoming community and stakeholder activities for February 2015

- Proposed Mattick Road bus turnaround – notification including map and request for feedback
- Changed traffic arrangements at Nursery Road – notification including map
- Closure of truck stop south of Macksville – email notification to trucking organisations and flyer at service stations
- Follow-up notification to residents regarding pre-condition surveys
- Traffic alerts/advertisement regarding upcoming speed zone, line marking and intersection changes
- Access onto private property for micro bat monitoring
- Consultation with residents regarding construction access, installation of boundary flagging, fencing, eroded controls and clearing, weed spraying, survey

2. Weather

2.1 Discussion

The automatic recording weather station at the main site compound records rainfall totals daily at 9AM. The automatic weather station was installed and commissioned at the site compound on the 23/01/15. The daily summaries for rainfall received in January at the Albert Drive compound are shown below in Table 2.1. The total rainfall received for the month is as follows: -

Month	Total monthly rainfall (Site office)
23/01/15 – 31/01/15	71.8mm

The site experienced a total of 9 rain days throughout the month of January 2015.

During January, rainfall received on site was higher than the January monthly average of 147.2mm. A summary of weather conditions recorded over the month for Smoky Cape by the Bureau of Meteorology is detailed below in Table 2.2.

Table 2.1 – Rainfall recorded at Albert Drive compound automated weather station

Date	Time	TOTAL Rain Gauge
23/01/2015	9:00:00	0
24/01/2015	9:00:00	2.8
25/01/2015	9:00:00	0.2
26/01/2015	9:00:00	0.8
27/01/2015	9:00:00	58.6
28/01/2015	9:00:00	7.2
29/01/2015	9:00:00	2.2
30/01/2015	9:00:00	0
31/01/2015	9:00:00	0

Table 2.2: Weather conditions recorded in January 2015 at Smoky Cape by the Bureau of Meteorology.

Observations from Smoky Cape Lighthouse.

Date	Day	Temps		Rain mm	Evap mm	Sun hours	Max wind gust		9 am						3 pm						
		Min	Max				Dir	Spd	Time	Temp	RH	Cld	Dir	Spd	MSLP	Temp	RH	Cld	Dir	Spd	MSLP
		°C	°C				km/h	local	°C	%	8 th	km/h	hPa	°C	%	8 th	km/h	hPa			
1	Th	22.6	29.8	1.2					24.4	93	4	NNW	11		28.9	74	4	NNE	22		
2	Fr	23.2	28.5	0					26.1	89	6	SE	4		27.8	76	6	N	9		
3	Sa	23.1	29.9	0					25.8	83	3	N	13		28.6	70	2	NE	17		
4	Su	22.2	27.9	0					24.6	73	2	N	17		27.4	66	2	NNE	24		
5	Mo	22.0	29.8	0					24.4	72	5	NNE	7		27.8	61	6	NNE	9		
6	Tu	21.2	31.3	0.4					24.5	82	2	SW	7		29.0	67	5	E	17		
7	We	21.6	31.0	0					23.9	71	3	Calm			29.4	58	3	ESE	9		
8	Th	20.7	29.3	2.2					23.4	75	4	Calm			28.6	63	3	NE	13		
9	Fr	22.1	28.1	0					24.0	78	1	N	19		27.3	68	2	NNE	31		
10	Sa	21.9	27.9	0					24.0	81	4	N	20		26.9	71	6	N	26		
11	Su	22.5	25.5	0					23.0	90	7	SW	7		23.6	91	8	S	4		
12	Mo	20.0	28.7	19.6					21.0	99	7	SW	7		28.0	74	6	SSW	19		
13	Tu	20.5	29.0	0					23.4	78	5	SSW	7		28.1	72	3	NNE	13		
14	We	22.4	27.3	0					22.9	90	6	NNW	31		25.0	83	7	N	22		
15	Th	21.7	30.5	16.0					26.0	67	1	SW	11		29.8	54	1	SE	11		
16	Fr	22.0	29.9	0					25.0	85	1	NE	7		28.6	73	3	NE	26		
17	Sa	22.2	32.1	0					24.8	70	1	WSW	9		31.8	47	1	ESE	9		
18	Su	21.2	31.9	0					26.0	62	1	SW	4		31.4	58	1	SE	9		
19	Mo	20.4	28.7	0					23.9	79	6	SE	9		28.0	72	6	SE	19		
20	Tu	20.5	25.2	8.0					22.7	79	7	ENE	15		21.7	92	7	NE	22		
21	We	18.8	29.1	23.4					21.7	87	5	SE	7		27.3	61	6	NE	15		
22	Th	20.1	24.5	17.0					23.2	93	7	NE	15		22.3	97	7	SSE	9		
23	Fr	20.7	26.2	54.8					24.0	87	7	NNE	15		24.5	78	7	NNE	11		
24	Sa	21.1	30.0	1.4					23.6	87	6	SW	11		29.8	66	3	ESE	9		
25	Su	22.8	31.1	0					25.8	89	1	N	11		31.0	60	6	NE	11		
26	Mo	22.7	29.9	0					26.8	81	5	SW	9		24.0	96	8	ESE	9		
27	Tu	22.3	23.9	15.8					23.4	75	7	ESE	15		20.6	92	8	SE	7		
28	We	17.4	22.0	13.6					18.2	97	7	SSW	13		22.0	71	7	S	19		

Date	Day	Temps		Rain	Evap	Sun	Max wind gust		9 am						3 pm						
		Min	Max				Dir	Spd	Time	Temp	RH	Cld	Dir	Spd	MSLP	Temp	RH	Cld	Dir	Spd	MSLP
		°C	°C				mm	mm	hours	km/h	local	°C	%	8 th	km/h	hPa	°C	%	8 th	km/h	hPa
29	Th	15.8	25.7	2.5					20.1	71	1	SW	19		25.0	60	2	SSW	19		
30	Fr	17.5	27.5	0					20.4	65	1	SW	11		27.3	55	1	NE	9		
31	Sa	19.4	29.3	0					23.5	80	1	SW	7		29.1	66	3	ESE	9		
Statistics for January 2015																					
Mean		21.1	28.4						23.7	80	4		10		27.1	70	4		14		
Lowest		15.8	22.0	0					18.2	62	1		Calm		20.6	47	1		S	4	
Highest		23.2	32.1	54.8					26.8	99	7	NNW	31		31.8	97	8	NNE	31		
Total				175.9																	

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(Source BOM Website – www.bom.gov.au)

3. Surface Water Monitoring

ACCIONA (Pacífico) have not yet taken over the Surface Water Monitoring Program from RMS. RMS collected surface water monitoring data for the local receiving waters in January 2015.

4. Sediment Basin Water Monitoring

No sediment basin discharge occurred during January 2015.

Sediment Basin B46.4 was tested after heavy rainfall on the 23/1/15. The pH was found to be marginally low and the water was treated with agricultural lime to increase the pH. Further heavy rainfall was received between the 27/1 – 29/01. Basin treatment resumed after the rainfall event ceased on the 30/01/15.

5. Noise Monitoring

No noise monitoring was conducted in January 2015. Monthly noise monitoring is due to commence in February 2015.

6. Vibration Monitoring

No vibration monitoring was conducted in January 2015.

7. Dust Monitoring

Dust gauges were placed at nearby sensitive receivers on the 08/01/15 – 06/02/15. Results for the analysis are still pending.

8. Groundwater Monitoring

ACCIONA (Pacífico) have not yet taken over the Groundwater Monitoring Program from RMS. RMS collected groundwater monitoring data during January 2015.

9. Complaints

9.1 Summary of Complaints for the month

The following table is a brief summary of one complaint received in January 2015.

Date	Contact Method	Address	Description of complaint	WC2NH response
29/01/15	Email	Letitia Close, North Macksville	A complaint was received on 29 January 2015 regarding the set-up of traffic control for removal of a house near Letitia Close, North Macksville, and unsafe behaviour by the driver of a low loader for the demolition contractor and safety regarding a school bus.	The complainant was advised that set up of the traffic control had not been completed at the time but that the issue of unsafe driving would be taken up with the demolition contractor. In regards to safety of the school bus, the complainant was advised that the project team met on-site with the bus operator and driver and that, while the driver said at no time did he feel it was unsafe or dangerous to drop students off, in light of the concerns raised by the complainant, mitigation measures had been agreed with them regarding the low loader being used in the vicinity. The complainant acknowledged this advice.
Various	Various	Various	A number of complaints were received in submissions to the proposed northern site compound and batch plant in January 2015, some of which were unrelated to the proposal or the construction phase. The complaints regarding the proposal will be addressed in the Major Consistency Review (MaCR) for the proposal while all complaints raised in each submission will be addressed in correspondence to the individual respondent.	Addressed in the Major Consistency Review for the Northern Site Compound.

10. Non-Compliance

10.1 Summary of Non-compliances

No non-compliances with the EPL conditions were recorded in January 2015.